

Work Order ID 131199

March-30-15 9:26:07 AM

131199

Page 1

Item ID: D130-701-011

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Conversion EC130

Start Date: 3/30/15 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 4/17/15 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: *[Signature]* Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr	
IIN D130-701	D	<i>* S12</i>

100	Document Control	0.00							<i>MLJ 15-03-30</i>
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy blue file and type labels per PPP D130-701-011 CHG005								

APR 09 2015

DAS 26 9-89

110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							

DAS 26 9-89

MAR 30 2015

DAS 26 9-89

MAR 31 2015

150	QC4- 100% Inspect kits for completeness	0.00							
150									
QC	Memo	0.00							

APR 09 2015

DAS 26 9-89

Quality Control

Work Order ID 131199

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Page 2

Item ID: D130-701-011 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Conversion EC130
 Start Date: 3/30/15 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 4/17/15 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	Packaging	0.00							
160									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D130-701-011								
	Location: _____								
	PPP Rev: _____								
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	0.00							
Quality Control									

Gave to Marc B. - for 21 fit

APR 09 2015

DAS
06
9-89

MLJ 15-04-28

15-04-09

Picklist Print

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Page 1

Work Order ID: 131199

131199

Parent Item: D130-701-011

D130-701-011

Parent Item Name: Conversion EC130

Start Date: 3/30/15

Required Date: 4/17/15

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A NEW ISSUE 10-04-19 JLM VERIFIED BY:DD IPP
Rev:B 11.01.31 now @ chg003 DD verified by:ec IPP Rev:C
11.03.21 now @ chg004 DD verified by:ec IPP Rev:D 11.04.27 per
ecn 11-554 DD verified by:ec

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Sign
D4037-1 *D4037-1* Aft Crossbeam DAS 06 9-89		Manufactured	No			110	Each	3.0000	1				DAS 26 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST471		3							
				71120		2							
				71407		1							
D4037-3 *D4037-3* Fwd Crossbeam DAS 06 9-89		Manufactured	No			110	Each	3.0000	1				DAS 26 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST471		3							
				106998		1							
				71121		1							
				71408		1							
D4038-041 *D4038-041* Angle Assy Fwd LH DAS 06 9-89		Manufactured	No			110	Each	1.0000	1				DAS 26 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				st535		1							
				69861		1							

MAR 30 2015

Picklist Print

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Work Order ID: 131199

131199

Parent Item: D130-701-011

D130-701-011

Parent Item Name: Conversion EC130

Start Date: 3/30/15

Required Date: 4/17/15

Start Qty: 1.00

Required Qty: 1.00

D4038-042

Manufactured No

110

Each

1.0000

1

D4038-042

Angle Assy Fwd RH

**

DAS
26
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

st535

1

71123

1

110

Each

1.0000

1

1

D4038-043

Manufactured No

D4038-043

Angle Assy Aft LH

**

DAS
26
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

st535

1

69855

1

110

Each

1.0000

1

1

D4038-044

Manufactured No

D4038-044

Angle Assy Aft RH

**

DAS
26
9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

st535

1

71125

1

110

Each

2.0000

1

1

D4039-041

Manufactured No

D4039-041

Fwd Bracket Assembly

**

DAS
26
9-89

Location

Loc Qty

Loc Code

ST476

2

59135

1

71126

1

DAS
06
9-89

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Shop Packet Print

Page 2

Picklist Print

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Page 3

Work Order ID: 131199

Parent Item: D130-701-011

Parent Item Name: Conversion EC130

131199

D130-701-011

Start Date: 3/30/15

Required Date: 4/17/15

Start Qty: 1.00

Required Qty: 1.00

D4039-043

Manufactured No

110

Each

1.0000

1

D4039-043

Aft Bracket Assembly

DAS

06

9-89

Location

Loc Qty

Loc Code

ST476

1

71127

1

D4040-1

Manufactured No

110

Each

9.0000

D4040-1

Radius Block

DAS

06

9-89

Location

Loc Qty

Loc Code

ST082

9

71128

9

D4090-5

Manufactured No

110

Each

4.0000

D4090-5

Placard

DAS

06

9-89

Location

Loc Qty

Loc Code

ST087

4

67631

4

AN5-10A

Purchased No

110

Each

243.0000

AN5-10A

BOLT

DAS

06

9-89

Location

Loc Qty

Loc Code

GA

51

122800

51

ST338

192

M131305

2

M131624

190

**

**

**

**

DAS
26
9-89

DAS
46

DAS
26
9-89

DAS
46
9-89

DAS
26
9-89

DAS
46
9-89

DAS
26
9-89

MAR 30 2015

DAS
46
9-89

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Shop Packet Print

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Picklist Print

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Work Order ID: 131199

Parent Item: D130-701-011

Parent Item Name: Conversion EC130

131199

D130-701-011

Start Date: 3/30/15

Required Date: 4/17/15

Start Qty: 1.00

Required Qty: 1.00

MS20002C5

Purchased

No

110

Each

40.0000

8

DAS
46

DAS
26
9-89

MS20002C5

Bolt

DAS
86
9-89

Location

Loc Qty

Loc Code

ST314

40

114619

40

MS20002C6

Purchased

No

110

Each

108.0000

12

DAS
46

DAS
26
9-89

MS20002C6

WASHER

DAS
86
9-89

Location

Loc Qty

Loc Code

ST314

108

m127831

108

MS21042L5

Purchased

No

110

Each

465.0000

24

DAS
46

DAS
26
9-89

MS21042L5

Nut

DAS
86
9-89

Location

Loc Qty

Loc Code

GA

150

m127813

150

ST305

315

m127813

290

m130388

4

m131340

21

DAS

27

9-89

APR 01 2015

DAS

27

9-89

APR 01 2015

MAR 30 2015

Supplied Nut
4 x BLRS051
1 x D3173-041

B 12931X2
131951X1
B 71275

Picklist Print

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Work Order ID: 131199

Parent Item: D130-701-011

Parent Item Name: Conversion EC130

131199

D130-701-011

Start Date: 3/30/15

Required Date: 4/17/15

Start Qty: 1.00

Required Qty: 1.00

DAS

MS21042L6

Purchased

No

110

Each

422.0000

12

12

DAS

26

9-89

MS21042L6

Nut

**

46

Location

Loc Qty

Loc Code

ST273A

200

m131624

200

ST305

22

m129909

1

m130799

21

t260a

200

m131317

200

DAS
86
9-89

12x

MS21250-05032

Purchased

No

110

Each

11.0000

4

4

DAS

26

9-89

MS21250-05032

Bolt

**

46

9-89

DAS
86
9-89

Location

Loc Qty

Loc Code

ST298

11

118141

11

MS21250-05038

Purchased

No

110

Each

26.0000

4

4

DAS

26

9-89

MS21250-05038

Bolt

**

46

9-89

DAS
86
9-89

Location

Loc Qty

Loc Code

ST298

26

118141

18

m126274

8

MS21250-06018

Purchased

No

110

Each

24.0000

12

12

DAS

26

9-89

MS21250-06018

BOLT

**

46

9-89

DAS
86
9-89

Location

Loc Qty

Loc Code

ST298

24

118141

24

MAR 30 2015

12x

March-30-15 9:26:06 AM

Shop Packet Print

Page 5

Picklist Print

March-30-15 9:26:06 AM

Page 6

Work Order ID: 131199

131199

Parent Item: D130-701-011

D130-701-011

Parent Item Name: Conversion EC130

Start Date: 3/30/15

Required Date: 4/17/15

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0563J

Purchased

No

110

Each

799.0000

40

40

NAS1149D0563J

Washer

DAS
28
9-89

DAS
46
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

130

m125807

130

ST260a

68

113524

3

118206

2

m130799

63

ST269

156

m128257

156

ST271

445

m131026

445

NAS1149D0663J

Purchased

No

110

Each

1,219.000

12

12

NAS1149D0663J

Washer

DAS
28
9-89

MAR 30 2015

DAS
46
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260

1152

M131618

1152

ST269

67

M126334

67

Linda Lacelle

From: Marc Bellavance
Sent: March-30-15 8:33 AM
To: Linda Lacelle
Subject: D130-701-011 Kit

Mornin' Bobelette,

As discussed this past Friday, I was asked to visit Mirabel Heli Support around the end of April to perform a trial fit of the EC130 Basket Fixed Provision on an EC130 T2. Currently, the aircraft is in Florida and due to arrive in Mirabel sometimes during the last 2 weeks of April and I want to make sure we are ready when it does arrive. Can you please ensure we have a kit ready to go?

Thanks,
Marc

MS21042L6 nuts. The D4039-041 mounts to the aft side of the D4037-3 channel and the D4039-043 mounts to the aft side of the D4037-1 channel on the side that the basket is to be installed. See Figure 6 for details.

- 3.2.12 Mount the basket to the D4039-041/-043 bracket assemblies using the pip pin provided and the AN4-12A bolts, NAS1149D0463J washers and MS21042L4 nuts. See Figure 7 for details.
- 3.2.13 Install D3180-041 strut assembly as shown in Figure 8.
- 3.2.14 Torque all fasteners per Table 1.
- 3.2.15 Repeat steps 3.2.11 to 3.2.14 if a basket is being installed on the other side of the aircraft.
- 3.2.16 Install D4090-5 placard on instrument panel in clear view of the pilot. Verify that D4090-1/-3 placards are installed on lid of basket.
- 3.2.17 Update aircraft Weight and Balance data in accordance with Section 4 of this document. If the landing gear steps are removed, the aircraft Weight and Balance must be adjusted accordingly.

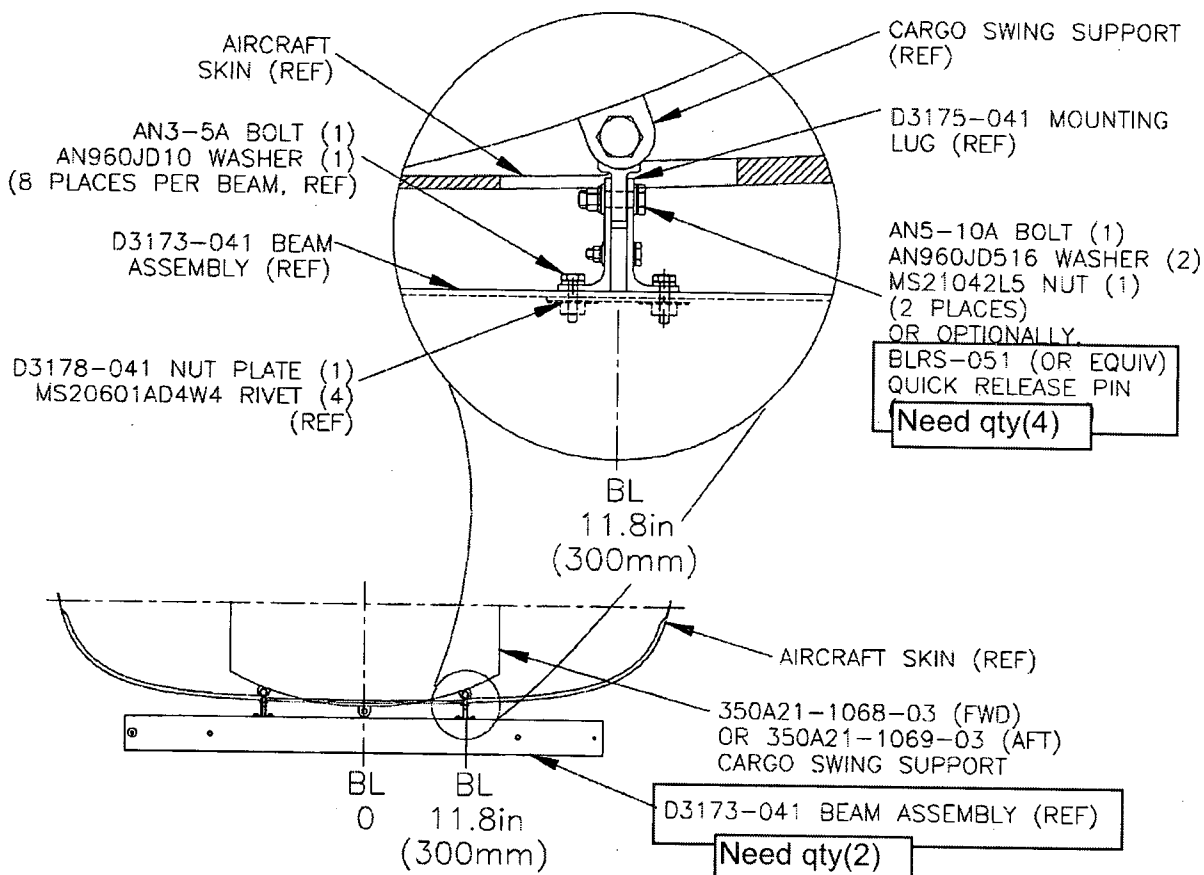


Figure 2 – Typical D3173-041 Beam Installation

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Revision: D

Date: 10.09.23

Linda Lacelle

From: Marc Bellavance
Sent: April-01-15 12:09 PM
To: Linda Lacelle
Subject: RE: D130-701-011 Kit
Attachments: Page6_IIN-D130-701_D.pdf

Hey Bobelette!

Can you please add to the list items highlighted in attachment?

Thanks,
Marc

From: Marc Bellavance
Sent: March-30-15 8:33 AM
To: Linda Lacelle
Subject: D130-701-011 Kit

Mornin' Bobelette,

As discussed this past Friday, I was asked to visit Mirabel Heli Support around the end of April to perform a trial fit of the EC130 Basket Fixed Provision on an EC130 T2. Currently, the aircraft is in Florida and due to arrive in Mirabel sometimes during the last 2 weeks of April and I want to make sure we are ready when it does arrive. Can you please ensure we have a kit ready to go?

Thanks,
Marc

4. WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D130-701-041 (LH installation)	120 lb 54 kg	- 47.4 in - 1.20 m	- 5688 in-lb - 64.8 m-kg	133.9 in 3.40 m	16068 in-lb 183.6 m-kg
D130-701-041 (RH installation)	120 lb 54 kg	+ 47.4 in + 1.20 m	+ 5688 in-lb + 64.8 m-kg	133.9 in 3.40 m	16068 in-lb 183.6 m-kg
2 x D130-701-041 (LH and RH installation)	224 lb 102 kg	0.0 in 0.00 m	0 in-lb 0.0 m-kg	133.9 in 3.40 m	29994 m-kg 346.8 m-kg
D130-701-043 (LH installation)	130 lb 59 kg	- 47.4 in - 1.20 m	- 6162 in-lb - 70.8 m-kg	133.9 in 3.40 m	17407 in-lb 200.6 m-kg
D130-701-043 (RH installation)	130 lb 59 kg	+ 47.4 in + 1.20 m	+ 6162 in-lb + 70.8 m-kg	133.9 in 3.40 m	17407 in-lb 200.6 m-kg
2 x D130-701-043 (LH and RH installation)	235 lb 106.8 kg	0.0 in 0.00 m	0.0 in-lb 0.00 m-kg	133.9 in 3.40 m	31467 in-lb 363.1 m-kg
D130-701-013 (Fixed provisions)	25 lb 11.4 kg	0.0 in 0.00 m	0.0 in-lb 0.00 m-kg	133.9 in 3.40 m	3348 in-lb 38.8 m-kg

5. PARTS LIST

Qty -041	Qty -043	Qty -011	Qty -013	Part Number	Description
X				D130-701-041	HELI-UTILITY-BASKET
	X			D130-701-043	HELI-UTILITY BASKET
		X		D130-701-011	CONVERSION KIT
			X	D130-701-013	FIXED PROVISIONS KIT
2	2			*D2022-101	SPACER
1	1			*D2258-220	LABEL
1	1			*D2332-041	PROP ASSEMBLY
1	1			*D2512	BASKET LID ASSEMBLY
1	1			*D2530	HANDLE ASSEMBLY
2	2			*D2535	SPRING
2	2			*D2537	BUSHING
2	2			*D2931	BUMPER
1	1			*D3172-041	BASKET BASE ASSEMBLY
2				D3173-041	BEAM ASSEMBLY
1				D3177-041	BRACKET ASSEMBLY
1				D3177-043	BRACKET ASSEMBLY
1	1			D3180-041	STRUT ASSEMBLY
1	1			D3181-1	BUSHING
	1		1	D4037-1	AFT CHANNEL
	1		1	D4037-3	FWD CHANNEL
	1		1	D4038-041	ANGLE ASSEMBLY, FWD, LH
	1		1	D4038-042	ANGLE ASSEMBLY, FWD, RH
	1		1	D4038-043	ANGLE ASSEMBLY, AFT, LH
	1		1	D4038-044	ANGLE ASSEMBLY, AFT, RH
	1			D4039-041	FWD BRACKET ASSEMBLY
	1			D4039-043	AFT BRACKET ASSEMBLY
	4		4	D4040-1	RADIUS BLOCK
	1			D4090-1	PLACARD (ON BASKET LID)
	1			D4090-3	PLACARD (ON BASKET LID)

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Revision: D

Date: 10.09.15

Qty -041	Qty -043	Qty -011	Qty -013	Part Number	Description
	1	<u>1</u>	1	D4090-5	PLACARD
2	2			*AN3-16A	BOLT
2	2			AN4-12A	BOLT
1	1			*AN4-22A	BOLT
1	1			*AN4-24A	BOLT
3 (2)	3 (2)			+AN4-7A	BOLT
4	16	<u>16</u>	16	AN5-10A	BOLT
4	4			*AN5-17A	BOLT
2				AN5-23A	BOLT
4	4			*AN970-4	WASHER
	8	<u>8</u>	8	MS20002C5	WASHER
	12	<u>12</u>		MS20002C6	WASHER
2	2			*MS20600AD4W3	RIVET
2	2			*MS21042L3	NUT (OR MS21042-3)
7 (4)	7 (4)			+MS21042L4	NUT (OR MS21042-4)
10 (4)	28 (4)	<u>24</u>	24	+MS21042L5	NUT (OR MS21042-5)
	12	<u>12</u>		MS21042L6	NUT (OR MS21042-6)
	4	<u>4</u>	4	MS21250-05032	BOLT
	4	<u>4</u>	4	MS21250-05038	BOLT
	12	<u>12</u>		MS24250-06018	BOLT
2	2			*NAS1149DN832J	WASHER (AN960JD8)
2	2			*NAS1149D0416J	WASHER (AN960JD416L)
7 (2)	7 (2)			+NAS1149D0463J	WASHER (AN960JD416)
16 (4)	44 (4)	<u>40</u>	40	+NAS1149D0563J	WASHER (AN960JD516)
	12	<u>12</u>		NAS1149D0663J	WASHER (AN960JD616)

* Pre-assembled prior to shipping

+ Quantity in () preassembled prior to shipping

Work Order ID 131199

131199

Page 1

March-30-15 9:26:07 AM

Item ID: D130-701-011

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Conversion EC130

Start Date: 3/30/15 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 4/17/15 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: Date: Tooling: Date:
QC: Date: SPC (Y/N): Date:

Run Start *NR1*
Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr	
IIN D130-701	D	* 512

100 Document Control 0.00
DOCUMENT CONTROL
DC Memo 0.00
Doc.Control -USB or Paperwork Photocopy blue file and type labels per PPP D130-701-011 CHG005

ML5 1503-30

110 Pick Kit 0.00
Packaging Memo 0.00
Packaging

JL. DAS 28 9:39 MAR 30 2015

150 QC4- 100% Inspect kits for completeness 0.00
QC Memo 0.00
Quality Control

Linda Lacelle

From: Marc Bellavance
Sent: April-02-15 8:45 AM
To: Linda Lacelle
Subject: RE: D130-701-011 Kit

First: you never bother me.

Second: yes, trial fit only. So no worries if there is a few scratches on it, as long as it is to current rev drawing.

From: Linda Lacelle
Sent: April-02-15 8:40 AM
To: Marc Bellavance
Subject: RE: D130-701-011 Kit

Marc,
Sorry to bother you again...the D3173-041 has a few nicks in it. Is it ok for your trial fit?

From: Marc Bellavance
Sent: April-01-15 1:51 PM
To: Linda Lacelle
Subject: RE: D130-701-011 Kit

:)

From: Linda Lacelle
Sent: April-01-15 1:49 PM
To: Marc Bellavance
Subject: Re: D130-701-011 Kit

Phew. That's what i was hoping you would say :)

Sent from my iPhone

On Apr 1, 2015, at 1:44 PM, Marc Bellavance <mbellavance@dartaero.com> wrote:

Sorry Linda, I was having lunch... I think we can do with qty(1) only since we won't be installing the complete kit.

From: Linda Lacelle
Sent: April-01-15 1:29 PM
To: Marc Bellavance
Subject: RE: D130-701-011 Kit

So???

From: Linda Lacelle
Sent: April-01-15 12:33 PM
To: Marc Bellavance
Subject: RE: D130-701-011 Kit

Only have 1 x D3173-041, do you absolutely need 2 ?

From: Marc Bellavance
Sent: April-01-15 12:09 PM
To: Linda Lacelle
Subject: RE: D130-701-011 Kit

Hey Bobelette!

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Thanks,
Marc

From: Marc Bellavance
Sent: March-30-15 8:33 AM
To: Linda Lacelle
Subject: D130-701-011 Kit

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